

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2022 - 2024

Occupation		Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification	
Code	Title	2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>	Typical on-the-job Training <sup>4</sup>
<b>00-0000</b>	<b>Total, All Occupations</b>	<b>1,815,460</b>	<b>1,840,550</b>	<b>25,090</b>	<b>1.38</b>	<b>215,320</b>			
<b>11-0000</b>	<b>Management Occupations</b>	<b>115,710</b>	<b>117,230</b>	<b>1,520</b>	<b>1.32</b>	<b>10,420</b>			
<b>11-1000</b>	<b>Top Executives</b>	<b>31,130</b>	<b>31,660</b>	<b>530</b>	<b>1.71</b>	<b>2,920</b>			
11-1011	Chief Executives	4,560	4,500	-60	-1.30	300	Bachelor's degree	5 years or more	None
11-1021	General and Operations Managers	25,640	26,200	560	2.20	2,530	Bachelor's degree	5 years or more	None
11-1031	Legislators	940	970	30	2.76	90	Bachelor's degree	Less than 5 years	None
<b>11-2000</b>	<b>Advertising, Marketing, Promotions, Public Relations, and Sales Managers</b>	<b>5,030</b>	<b>5,090</b>	<b>60</b>	<b>1.17</b>	<b>450</b>			
11-2011	Advertising and Promotions Managers	210	210	0	-0.48	20	Bachelor's degree	Less than 5 years	None
11-2021	Marketing Managers	1,480	1,500	20	1.28	140	Bachelor's degree	5 years or more	None
11-2022	Sales Managers	2,490	2,530	40	1.52	230	Bachelor's degree	Less than 5 years	None
11-2031	Public Relations and Fundraising Managers	100	100	0	0.98	0			
11-2032	Public Relations Managers	220	220	0	0.00	20	Bachelor's degree	5 years or more	None
<b>11-3000</b>	<b>Operations Specialties Managers</b>	<b>22,710</b>	<b>23,200</b>	<b>490</b>	<b>2.17</b>	<b>1,840</b>			
11-3010	Administrative Services and Facilities Managers	190	190	0	-0.52	20			
11-3011	Administrative Services Managers	2,320	2,360	40	1.77	20			
11-3012	Administrative Services Managers	3,410	3,450	40	1.35	310	Bachelor's degree	Less than 5 years	None
11-3013	Facilities Managers	590	600	10	1.70	50	Bachelor's degree	Less than 5 years	None
11-3021	Computer and Information Systems Managers	3,860	3,940	80	1.99	320	Bachelor's degree	5 years or more	None
11-3031	Financial Managers	6,540	6,760	220	3.44	610	Bachelor's degree	5 years or more	None
11-3051	Industrial Production Managers	1,740	1,760	20	1.21	130	Bachelor's degree	5 years or more	None
11-3061	Purchasing Managers	550	550	0	0.91	50	Bachelor's degree	5 years or more	None
11-3071	Transportation, Storage, and Distribution Managers	1,320	1,350	30	2.42	130	High school diploma or equivalent	5 years or more	None
11-3111	Compensation and Benefits Managers	230	230	0	1.32	20	Bachelor's degree	5 years or more	None
11-3121	Human Resources Managers	1,560	1,580	20	1.54	140	Bachelor's degree	5 years or more	None
11-3131	Training and Development Managers	410	420	10	2.22	40	Bachelor's degree	5 years or more	None
<b>11-9000</b>	<b>Other Management Occupations</b>	<b>56,830</b>	<b>57,270</b>	<b>440</b>	<b>0.78</b>	<b>5,220</b>			
11-9013	Farmers, Ranchers, and Other Agricultural Managers	14,140	14,000	-140	-0.97	1,410	High school diploma or equivalent	5 years or more	None
11-9021	Construction Managers	4,650	4,750	100	2.15	410	Bachelor's degree	None	Moderate-term on-the-job training
11-9031	Education and Childcare Administrators, Preschool and Daycare	1,000	1,010	10	0.70	80	Bachelor's degree	Less than 5 years	None
11-9032	Education Administrators, Kindergarten through Secondary	3,550	3,620	70	1.91	300	Master's degree	5 years or more	None
11-9033	Education Administrators, Postsecondary	2,130	2,070	-60	-2.81	130	Master's degree	Less than 5 years	None
11-9039	Education Administrators, All Other	490	500	10	0.81	40	Bachelor's degree	Less than 5 years	None
11-9041	Architectural and Engineering Managers	2,180	2,200	20	0.78	160	Bachelor's degree	5 years or more	None
11-9051	Food Service Managers	4,620	4,670	50	1.02	590	High school diploma or equivalent	Less than 5 years	Short-term on-the-job training
11-9061	Funeral Service Managers	60	60	0	-1.56	0			
11-9071	Gambling Managers	280	290	10	3.25	40	High school diploma or equivalent	Less than 5 years	None
11-9072	Entertainment and Recreation Managers, Except Gambling	90	90	0	2.17	10	Bachelor's degree	Less than 5 years	None
11-9081	Lodging Managers	440	440	0	1.15	50	High school diploma or equivalent	Less than 5 years	None
11-9111	Medical and Health Services Managers	7,950	8,350	400	4.98	840	Bachelor's degree	Less than 5 years	None
11-9121	Natural Sciences Managers	310	310	0	1.30	30	Bachelor's degree	5 years or more	None
11-9131	Postmasters and Mail Superintendents	240	240	0	0.83	20	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	4,950	4,960	10	0.18	400	High school diploma or equivalent	Less than 5 years	None
11-9151	Social and Community Service Managers	1,600	1,630	30	1.56	150	Bachelor's degree	Less than 5 years	None
11-9161	Emergency Management Directors	270	270	0	2.25	30	Bachelor's degree	5 years or more	None
11-9171	Funeral Home Managers	510	500	-10	-1.95	40	Associate's degree	Less than 5 years	None
11-9198	Personal Service Managers; Entertainment & Recreation Managers, Except Gambling; and Managers, All Other	400	400	0	0.00	0			
11-9199	Managers, All Other	6,930	6,880	-50	-0.69	520	Bachelor's degree	Less than 5 years	None
<b>13-0000</b>	<b>Business and Financial Operations Occupations</b>	<b>94,630</b>	<b>96,150</b>	<b>1,520</b>	<b>1.60</b>	<b>8,980</b>			
<b>13-1000</b>	<b>Business Operations Specialists</b>	<b>62,930</b>	<b>63,870</b>	<b>940</b>	<b>1.49</b>	<b>6,060</b>			
13-1020	Buyers and Purchasing Agents	5,170	5,120	-50	-0.95	490	Bachelor's degree	None	Moderate-term on-the-job training
13-1031	Claims Adjusters, Examiners, and Investigators	4,500	4,500	0	0.00	360	High school diploma or equivalent	None	Long-term on-the-job training
13-1041	Compliance Officers	4,960	5,020	60	1.27	430	Bachelor's degree	None	Moderate-term on-the-job training
13-1051	Cost Estimators	2,210	2,250	40	1.54	220	Bachelor's degree	None	Moderate-term on-the-job training
13-1071	Human Resources Specialists	7,970	8,120	150	1.79	830	Bachelor's degree	None	None
13-1075	Labor Relations Specialists	1,810	1,750	-60	-3.27	140	Bachelor's degree	Less than 5 years	None
13-1081	Logisticians	3,400	3,550	150	4.35	380	Bachelor's degree	None	None
13-1082	Project Management Specialists	3,870	3,930	60	1.53	340	Bachelor's degree	None	None
13-1111	Management Analysts	7,190	7,390	200	2.68	760	Bachelor's degree	Less than 5 years	None
13-1121	Meeting, Convention, and Event Planners	1,630	1,650	20	1.54	180	Bachelor's degree	None	None
13-1131	Fundraisers	1,190	1,200	10	0.93	110	Bachelor's degree	None	None
13-1141	Compensation, Benefits, and Job Analysis Specialists	1,120	1,140	20	1.97	110	Bachelor's degree	Less than 5 years	None
13-1151	Training and Development Specialists	4,700	4,810	110	2.19	480	Bachelor's degree	Less than 5 years	None
13-1161	Market Research Analysts and Marketing Specialists	5,610	5,820	210	3.74	660	Bachelor's degree	None	None
13-1198	Project Management Specialists and Business Operations Specialists, All Other	1,500	1,510	10	0.40	0			
13-1199	Business Operations Specialists, All Other	5,960	5,980	20	0.44	570	Bachelor's degree	None	None
<b>13-2000</b>	<b>Financial Specialists</b>	<b>31,710</b>	<b>32,290</b>	<b>580</b>	<b>1.82</b>	<b>2,920</b>			
13-2011	Accountants and Auditors	16,650	16,970	320	1.91	1,610	Bachelor's degree	None	None
13-2020	Property Appraisers and Assessors	660	670	10	1.82	60	Bachelor's degree	None	Long-term on-the-job training
13-2021	Appraisers and Assessors of Real Estate	290	300	10	2.77	0			
13-2031	Budget Analysts	590	600	10	0.85	50	Bachelor's degree	None	None
13-2041	Credit Analysts	950	950	0	0.00	80	Bachelor's degree	None	None
13-2051	Financial and Investment Analysts	1,920	1,950	30	1.93	160	Bachelor's degree	None	None
13-2052	Personal Financial Advisors	1,740	1,790	50	2.70	150	Bachelor's degree	None	Long-term on-the-job training
13-2053	Insurance Underwriters	830	840	10	1.32	70	Bachelor's degree	None	Moderate-term on-the-job training
13-2054	Financial Risk Specialists	190	190	0	2.13	20	Bachelor's degree	None	None
13-2061	Financial Examiners	560	580	20	4.86	60	Bachelor's degree	None	Long-term on-the-job training
13-2071	Credit Counselors	450	460	10	1.56	40	Bachelor's degree	None	Moderate-term on-the-job training
13-2072	Loan Officers	4,350	4,420	70	1.52	370	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training

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13-2081	Tax Examiners and Collectors, and Revenue Agents	370	380	10	1.35	40	Bachelor's degree	None	Moderate-term on-the-job training
13-2082	Tax Preparers	1,250	1,270	20	2.09	160	High school diploma or equivalent	None	Moderate-term on-the-job training
13-2098	Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other	130	130	0	0.00	0			
13-2099	Financial Specialists, All Other	790	800	10	0.63	70	Bachelor's degree	None	None
<b>15-0000</b>	<b>Computer and Mathematical Occupations</b>	<b>35,660</b>	<b>36,390</b>	<b>730</b>	<b>2.05</b>	<b>2,260</b>			
15-1100	Computer Occupations	8,560	8,770	210	2.46	110			
15-1121	Computer Systems Analysts	1,310	1,350	40	2.90	20			
15-1122	Information Security Analysts	140	140	0	0.72	0			
15-1131	Computer Programmers	310	320	10	2.27	0			
15-1132	Software Developers, Applications	1,150	1,170	20	2.36	10			
15-1133	Software Developers, Systems Software	460	470	10	2.40	10			
15-1134	Web Developers	210	210	0	2.39	0			
15-1141	Database Administrators	550	570	20	3.44	10			
15-1142	Network and Computer Systems Administrators	870	900	30	2.75	10			
15-1143	Computer Network Architects	250	260	10	3.60	0			
15-1151	Computer User Support Specialists	1,970	2,010	40	2.03	20			
15-1152	Computer Network Support Specialists	770	780	10	1.57	10			
15-1199	Computer Occupations, All Other	580	600	20	3.10	10			
15-1200	Computer Occupations	24,950	25,410	460	1.86	1,980			
15-1211	Computer Systems Analysts	2,380	2,430	50	2.31	200	Bachelor's degree	None	None
15-1212	Information Security Analysts	800	860	60	7.36	90	Bachelor's degree	Less than 5 years	None
15-1231	Computer Network Support Specialists	1,820	1,830	10	0.16	140	Associate's degree	None	Moderate-term on-the-job training
15-1232	Computer User Support Specialists	4,930	4,980	50	1.20	410	Some college, no degree	None	Moderate-term on-the-job training
15-1241	Computer Network Architects	1,150	1,160	10	1.05	80	Bachelor's degree	5 years or more	None
15-1242	Database Administrators	970	970	0	0.21	70	Bachelor's degree	None	None
15-1243	Database Architects	690	710	20	2.61	60	Bachelor's degree	Less than 5 years	None
15-1244	Network and Computer Systems Administrators	1,830	1,850	20	0.82	130	Bachelor's degree	None	None
15-1251	Computer Programmers	900	880	-20	-1.56	50	Bachelor's degree	None	None
15-1252	Software Developers	5,490	5,650	160	2.91	450	Bachelor's degree	None	None
15-1253	Software Quality Assurance Analysts and Testers	770	790	20	2.21	60	Bachelor's degree	None	None
15-1254	Web Developers	280	280	0	0.71	20	Bachelor's degree	None	None
15-1255	Web and Digital Interface Designers	310	310	0	0.97	30	Bachelor's degree	None	None
15-1256	Software Developers and Software Quality Assurance Analysts and Testers	210	220	10	4.27	0			
15-1257	Web Developers and Digital Interface Designers	130	130	0	-1.49	0			
15-1299	Computer Occupations, All Other	1,860	1,920	60	2.90	160	Bachelor's degree	None	None
<b>15-2000</b>	<b>Mathematical Science Occupations</b>	<b>2,140</b>	<b>2,200</b>	<b>60</b>	<b>2.66</b>	<b>180</b>			
15-2031	Operations Research Analysts	710	750	40	5.20	70	Bachelor's degree	None	None
15-2041	Statisticians	320	340	20	5.62	30	Master's degree	None	None
15-2051	Data Scientists	980	980	0	-0.31	70	Bachelor's degree	None	None
<b>17-0000</b>	<b>Architecture and Engineering Occupations</b>	<b>28,370</b>	<b>28,790</b>	<b>420</b>	<b>1.48</b>	<b>2,370</b>			
<b>17-1000</b>	<b>Architects, Surveyors, and Cartographers</b>	<b>1,800</b>	<b>1,850</b>	<b>50</b>	<b>3.00</b>	<b>160</b>			
17-1011	Architects, Except Landscape and Naval	850	870	20	2.48	70	Bachelor's degree	None	Internship/residency
17-1022	Surveyors	590	620	30	4.38	60	Bachelor's degree	None	Internship/residency
<b>17-2000</b>	<b>Engineers</b>	<b>18,140</b>	<b>18,370</b>	<b>230</b>	<b>1.28</b>	<b>1,260</b>			
17-2011	Aerospace Engineers	1,640	1,650	10	0.80	100	Bachelor's degree	None	None
17-2041	Chemical Engineers	320	320	0	1.90	20	Bachelor's degree	None	None
17-2051	Civil Engineers	2,070	2,150	80	3.76	180	Bachelor's degree	None	None
17-2061	Computer Hardware Engineers	290	260	-30	-7.37	10	Bachelor's degree	None	None
17-2071	Electrical Engineers	1,750	1,750	0	0.34	110	Bachelor's degree	None	None
17-2072	Electronics Engineers, Except Computer	1,900	1,920	20	0.95	130	Bachelor's degree	None	None
17-2081	Environmental Engineers	670	680	10	1.79	50	Bachelor's degree	None	None
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	720	730	10	1.81	50	Bachelor's degree	None	None
17-2112	Industrial Engineers	1,980	2,030	50	2.12	140	Bachelor's degree	None	None
17-2131	Materials Engineers	280	280	0	1.44	20	Bachelor's degree	None	None
17-2141	Mechanical Engineers	1,970	2,010	40	2.29	140	Bachelor's degree	None	None
17-2171	Petroleum Engineers	1,710	1,750	40	2.22	130	Bachelor's degree	None	None
17-2199	Engineers, All Other	2,520	2,500	-20	-0.95	150	Bachelor's degree	None	None
<b>17-3000</b>	<b>Drafters, Engineering Technicians, and Mapping Technicians</b>	<b>8,430</b>	<b>8,570</b>	<b>140</b>	<b>1.58</b>	<b>950</b>			
17-3011	Architectural and Civil Drafters	1,350	1,380	30	2.23	170	Associate's degree	None	None
17-3012	Electrical and Electronics Drafters	350	350	0	1.14	30	Associate's degree	None	None
17-3013	Mechanical Drafters	790	790	0	0.00	70	Associate's degree	None	None
17-3021	Aerospace Engineering and Operations Technologists and Technicians	180	170	-10	-2.25	20	Associate's degree	None	None
17-3022	Civil Engineering Technologists and Technicians	400	410	10	3.02	50	Associate's degree	None	None
17-3023	Electrical and Electronics Engineering Technologists and Technicians	1,430	1,450	20	1.54	170	Associate's degree	None	None
17-3024	Electro-Mechanical and Mechatronics Technologists and Technicians	70	70	0	1.45	10	Associate's degree	None	None
17-3025	Environmental Engineering Technologists and Technicians	540	550	10	1.67	60	Associate's degree	None	None
17-3026	Industrial Engineering Technologists and Technicians	690	680	-10	-0.44	70	Associate's degree	None	None
17-3027	Mechanical Engineering Technologists and Technicians	340	350	10	1.76	40	Associate's degree	None	None
17-3028	Calibration Technologists and Technicians	150	160	10	3.33	20	Associate's degree	None	None
17-3029	Engineering Technologists and Technicians, Except Drafters, All Other	1,230	1,250	20	2.04	130	Associate's degree	None	None
17-3031	Surveying and Mapping Technicians	890	910	20	3.05	130	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>19-0000</b>	<b>Life, Physical, and Social Science Occupations</b>	<b>11,080</b>	<b>11,250</b>	<b>170</b>	<b>1.50</b>	<b>1,080</b>			
<b>19-1000</b>	<b>Life Scientists</b>	<b>2,150</b>	<b>2,190</b>	<b>40</b>	<b>1.67</b>	<b>190</b>			
19-1012	Food Scientists and Technologists	90	90	0	3.45	10	Bachelor's degree	None	None
19-1013	Soil and Plant Scientists	130	130	0	2.36	20	Bachelor's degree	None	None
19-1021	Biochemists and Biophysicists	90	90	0	4.49	10	Doctoral or professional degree	None	None
19-1022	Microbiologists	150	160	10	5.41	20	Bachelor's degree	None	None
19-1029	Biological Scientists, All Other	490	480	-10	-1.85	40	Bachelor's degree	None	None
19-1031	Conservation Scientists	270	270	0	1.49	30	Bachelor's degree	None	None

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19-1041	Epidemiologists	90	100	10	5.56	10	Master's degree	None	None
19-1042	Medical Scientists, Except Epidemiologists	580	590	10	1.21	40	Doctoral or professional degree	None	None
<b>19-2000</b>	<b>Physical Scientists</b>	<b>2,150</b>	<b>2,200</b>	<b>50</b>	<b>2.32</b>	<b>210</b>			
19-2021	Atmospheric and Space Scientists	180	180	0	0.00	20	Bachelor's degree	None	None
19-2031	Chemists	360	380	20	3.57	40	Bachelor's degree	None	None
19-2041	Environmental Scientists and Specialists, Including Health	570	590	20	2.26	60	Bachelor's degree	None	None
19-2042	Geoscientists, Except Hydrologists and Geographers	810	830	20	2.47	80	Bachelor's degree	None	None
19-2099	Physical Scientists, All Other	120	120	0	1.72	10	Bachelor's degree	None	None
<b>19-3000</b>	<b>Social Scientists and Related Workers</b>	<b>2,160</b>	<b>2,180</b>	<b>20</b>	<b>1.02</b>	<b>160</b>			
19-3031	Clinical, Counseling, and School Psychologists	250	250	0	1.63	0			
19-3033	Clinical and Counseling Psychologists	110	110	0	1.80	10	Doctoral or professional degree	None	Internship/residency
19-3034	School Psychologists	230	240	10	1.72	20	Master's degree	None	Internship/residency
19-3039	Psychologists, All Other	510	500	-10	-1.18	30	Master's degree	None	Internship/residency
19-3051	Urban and Regional Planners	260	270	10	2.66	30	Master's degree	None	None
19-3099	Social Scientists and Related Workers, All Other	200	210	10	0.99	20	Bachelor's degree	None	None
<b>19-4000</b>	<b>Life, Physical, and Social Science Technicians</b>	<b>3,700</b>	<b>3,750</b>	<b>50</b>	<b>1.13</b>	<b>420</b>			
19-4010	Agricultural and Food Science Technicians	60	70	10	3.12	10			
19-4011	Agricultural and Food Science Technicians	130	130	0	0.78	0			
19-4021	Biological Technicians	670	660	-10	-1.05	80	Bachelor's degree	None	None
19-4031	Chemical Technicians	650	670	20	2.60	90	Associate's degree	None	Moderate-term on-the-job training
19-4041	Geological and Petroleum Technicians	170	170	0	2.96	0			
19-4042	Environmental Science and Protection Technicians, Including Health	180	170	-10	-2.79	20	Associate's degree	None	None
19-4043	Geological Technicians, Except Hydrologic Technicians	470	480	10	3.23	60	Associate's degree	None	Moderate-term on-the-job training
19-4061	Social Science Research Assistants	220	220	0	2.31	30	Bachelor's degree	None	None
19-4071	Forest and Conservation Technicians	110	110	0	0.00	10	Associate's degree	None	None
19-4091	Environmental Science and Protection Technicians, Including Health	150	150	0	3.45	0			
19-4092	Forensic Science Technicians	200	210	10	2.99	30	Bachelor's degree	None	Moderate-term on-the-job training
19-4099	Life, Physical, and Social Science Technicians, All Other	600	600	0	-0.33	70	Associate's degree	None	None
<b>19-5000</b>	<b>Occupational Health and Safety Specialists and Technicians</b>	<b>910</b>	<b>930</b>	<b>20</b>	<b>1.75</b>	<b>100</b>			
19-5011	Occupational Health and Safety Specialists	830	840	10	1.57	90	Bachelor's degree	None	None
19-5012	Occupational Health and Safety Technicians	80	90	10	3.61	10	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>21-0000</b>	<b>Community and Social Service Occupations</b>	<b>29,860</b>	<b>30,300</b>	<b>440</b>	<b>1.47</b>	<b>3,030</b>			
<b>21-1000</b>	<b>Counselors, Social Workers, and Other Community and Social Service Specialists</b>	<b>27,970</b>	<b>28,440</b>	<b>470</b>	<b>1.66</b>	<b>2,850</b>			
21-1012	Educational, Guidance, and Career Counselors and Advisors	4,150	4,170	20	0.39	350	Master's degree	None	None
21-1013	Marriage and Family Therapists	770	780	10	1.56	70	Master's degree	None	Internship/residency
21-1015	Rehabilitation Counselors	1,820	1,840	20	1.10	180	Master's degree	None	None
21-1018	Substance Abuse, Behavioral Disorder, and Mental Health Counselors	4,490	4,650	160	3.52	500	Bachelor's degree	None	None
21-1021	Child, Family, and School Social Workers	6,290	6,390	100	1.62	640	Bachelor's degree	None	None
21-1022	Healthcare Social Workers	2,490	2,510	20	1.09	250	Master's degree	None	Internship/residency
21-1023	Mental Health and Substance Abuse Social Workers	1,380	1,400	20	1.74	140	Master's degree	None	Internship/residency
21-1029	Social Workers, All Other	510	510	0	0.39	50	Bachelor's degree	None	None
21-1091	Health Education Specialists	1,100	1,120	20	2.01	130	Bachelor's degree	None	None
21-1092	Probation Officers and Correctional Treatment Specialists	990	1,010	20	1.51	90	Bachelor's degree	None	Short-term on-the-job training
21-1093	Social and Human Service Assistants	2,020	2,060	40	1.78	250	High school diploma or equivalent	None	Short-term on-the-job training
21-1094	Community Health Workers	740	770	30	3.52	90	High school diploma or equivalent	None	Short-term on-the-job training
<b>21-2000</b>	<b>Religious Workers</b>	<b>1,890</b>	<b>1,870</b>	<b>-20</b>	<b>-1.27</b>	<b>180</b>			
21-2011	Clergy	1,120	1,110	-10	-1.07	100	Bachelor's degree	None	Moderate-term on-the-job training
21-2021	Directors, Religious Activities and Education	570	560	-10	-1.42	60	Bachelor's degree	Less than 5 years	None
21-2099	Religious Workers, All Other	200	200	0	-1.97	20	Bachelor's degree	None	None
<b>23-0000</b>	<b>Legal Occupations</b>	<b>14,570</b>	<b>14,770</b>	<b>200</b>	<b>1.40</b>	<b>1,050</b>			
<b>23-1000</b>	<b>Lawyers, Judges, and Related Workers</b>	<b>9,950</b>	<b>10,070</b>	<b>120</b>	<b>1.20</b>	<b>530</b>			
23-1011	Lawyers	8,820	8,930	110	1.19	470	Doctoral or professional degree	None	None
23-1012	Judicial Law Clerks	80	80	0	0.00	10	Doctoral or professional degree	None	None
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	130	130	0	1.56	10	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-1022	Arbitrators, Mediators, and Conciliators	60	60	0	0.00	0	Bachelor's degree	Less than 5 years	Moderate-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	860	870	10	1.39	50	Doctoral or professional degree	5 years or more	Short-term on-the-job training
23-2000	Legal Support Workers	4,620	4,700	80	1.84	530			
23-2011	Paralegals and Legal Assistants	2,840	2,900	60	1.94	340	Associate's degree	None	None
23-2093	Title Examiners, Abstractors, and Searchers	1,560	1,590	30	1.92	170	High school diploma or equivalent	None	Moderate-term on-the-job training
23-2099	Legal Support Workers, All Other	210	210	0	0.00	20	Associate's degree	None	None
<b>25-0000</b>	<b>Educational Instruction and Library Occupations</b>	<b>105,480</b>	<b>106,680</b>	<b>1,200</b>	<b>1.14</b>	<b>9,190</b>			
<b>25-1000</b>	<b>Postsecondary Teachers</b>	<b>17,000</b>	<b>16,660</b>	<b>-340</b>	<b>-2.01</b>	<b>1,230</b>			
25-1011	Business Teachers, Postsecondary	890	850	-40	-3.61	60	Doctoral or professional degree	None	None
25-1022	Mathematical Science Teachers, Postsecondary	570	540	-30	-4.59	30	Doctoral or professional degree	None	None
25-1032	Engineering Teachers, Postsecondary	290	280	-10	-2.08	20	Doctoral or professional degree	None	None
25-1052	Chemistry Teachers, Postsecondary	220	210	-10	-4.07	10	Doctoral or professional degree	None	None
25-1054	Physics Teachers, Postsecondary	90	80	-10	-3.53	10	Doctoral or professional degree	None	None
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	80	70	-10	-2.63	10	Doctoral or professional degree	None	None
25-1063	Economics Teachers, Postsecondary	70	70	0	-4.23	0	Doctoral or professional degree	None	None
25-1065	Political Science Teachers, Postsecondary	110	110	0	-3.54	10	Doctoral or professional degree	None	None
25-1066	Psychology Teachers, Postsecondary	360	350	-10	-3.06	20	Doctoral or professional degree	None	None
25-1067	Sociology Teachers, Postsecondary	100	100	0	-5.00	10	Doctoral or professional degree	None	None
25-1069	Social Sciences Teachers, Postsecondary, All Other	90	90	0	-5.32	10	Doctoral or professional degree	None	None
25-1071	Health Specialties Teachers, Postsecondary	5,470	5,460	-10	-0.16	450	Doctoral or professional degree	Less than 5 years	None
25-1072	Nursing Instructors and Teachers, Postsecondary	670	670	0	-0.45	50	Doctoral or professional degree	Less than 5 years	None
25-1081	Education Teachers, Postsecondary	500	480	-20	-3.59	30	Doctoral or professional degree	Less than 5 years	None
25-1121	Art, Drama, and Music Teachers, Postsecondary	1,020	990	-30	-3.14	70	Master's degree	None	None
25-1122	Communications Teachers, Postsecondary	280	270	-10	-4.66	20	Doctoral or professional degree	None	None
25-1123	English Language and Literature Teachers, Postsecondary	650	630	-20	-4.13	40	Doctoral or professional degree	None	None

**OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2022 - 2024**

Code	Occupation Title	Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification	
		2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>	Typical on-the-job Training <sup>4</sup>
25-1124	Foreign Language and Literature Teachers, Postsecondary	90	80	-10	-4.65	10	Doctoral or professional degree	None	None
25-1125	History Teachers, Postsecondary	250	240	-10	-4.42	20	Doctoral or professional degree	None	None
25-1126	Philosophy and Religion Teachers, Postsecondary	210	200	-10	-2.43	20	Doctoral or professional degree	None	None
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	230	220	-10	-3.45	10	Doctoral or professional degree	None	None
25-1194	Career/Technical Education Teachers, Postsecondary	2,230	2,220	-10	-0.67	180	Bachelor's degree	Less than 5 years	None
25-1199	Postsecondary Teachers, All Other	1,220	1,170	-50	-3.61	80	Doctoral or professional degree	None	None
<b>25-2000</b>	<b>Preschool, Elementary, Middle, Secondary, and Special Education Teachers</b>	<b>55,320</b>	<b>56,390</b>	<b>1,070</b>	<b>1.93</b>	<b>4,780</b>			
25-2011	Preschool Teachers, Except Special Education	7,310	7,470	160	2.13	870	Associate's degree	None	None
25-2012	Kindergarten Teachers, Except Special Education	1,890	1,920	30	1.91	220	Bachelor's degree	None	None
25-2021	Elementary School Teachers, Except Special Education	17,640	17,980	340	1.89	1,460	Bachelor's degree	None	None
25-2022	Middle School Teachers, Except Special and Career/Technical Education	7,970	8,120	150	1.92	660	Bachelor's degree	None	None
25-2023	Career/Technical Education Teachers, Middle School	170	170	0	1.75	10	Bachelor's degree	Less than 5 years	None
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	14,350	14,630	280	1.93	1,120	Bachelor's degree	None	None
25-2032	Career/Technical Education Teachers, Secondary School	910	930	20	1.76	70	Bachelor's degree	Less than 5 years	None
25-2051	Special Education Teachers, Preschool	110	110	0	1.89	10	Bachelor's degree	None	None
25-2052	Special Education Teachers, Kindergarten and Elementary School	2,090	2,130	40	1.86	170	Bachelor's degree	None	None
25-2053	Special Education Teachers, Middle School	370	370	0	1.91	0			
25-2054	Special Education Teachers, Secondary School	340	350	10	1.75	0			
25-2057	Special Education Teachers, Middle School	580	590	10	1.72	50	Bachelor's degree	None	None
25-2058	Special Education Teachers, Secondary School	1,520	1,550	30	1.90	130	Bachelor's degree	None	None
25-2059	Special Education Teachers, All Other	60	60	0	3.28	10	Bachelor's degree	None	None
<b>25-3000</b>	<b>Other Teachers and Instructors</b>	<b>11,800</b>	<b>12,020</b>	<b>220</b>	<b>1.85</b>	<b>1,260</b>			
25-3011	Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors	580	580	0	-0.17	70	Bachelor's degree	None	None
25-3021	Self-Enrichment Teachers	3,030	3,110	80	2.41	390	High school diploma or equivalent	Less than 5 years	None
25-3031	Substitute Teachers, Short-Term	3,510	3,600	90	2.65	450	Bachelor's degree	None	None
25-3041	Tutors	740	740	0	0.81	110	Some college, no degree	None	None
25-3097	Teachers and Instructors, All Other, Except Substitute Teachers	280	280	0	0.36	0			
25-3098	Substitute Teachers	1,740	1,770	30	1.61	10			
25-3099	Teachers and Instructors, All Other	1,920	1,940	20	0.94	230	Bachelor's degree	None	None
<b>25-4000</b>	<b>Librarians, Curators, and Archivists</b>	<b>3,410</b>	<b>3,440</b>	<b>30</b>	<b>1.06</b>	<b>360</b>			
25-4011	Archivists	120	120	0	0.81	20	Master's degree	None	None
25-4012	Curators	140	140	0	3.62	20	Master's degree	None	None
25-4013	Museum Technicians and Conservators	200	210	10	4.02	30	Bachelor's degree	None	None
25-4021	Librarians	510	520	10	1.96	10			
25-4022	Librarians and Media Collections Specialists	1,490	1,500	10	0.94	160	Master's degree	None	None
25-4031	Library Technicians	950	950	0	-0.21	140	Postsecondary non-degree award	None	None
<b>25-9000</b>	<b>Other Educational Instruction and Library Occupations</b>	<b>17,960</b>	<b>18,180</b>	<b>220</b>	<b>1.20</b>	<b>1,570</b>			
25-9031	Instructional Coordinators	2,490	2,470	-20	-0.72	220	Master's degree	5 years or more	None
25-9041	Teacher Assistants	4,610	4,700	90	1.84	40			
25-9044	Teaching Assistants, Postsecondary	350	350	0	-2.54	40	Bachelor's degree	None	None
25-9045	Teaching Assistants, Except Postsecondary	9,320	9,490	170	1.78	1,180	Some college, no degree	None	None
25-9099	Educational Instruction and Library Workers, All Other	1,040	1,030	-10	-1.25	90	Bachelor's degree	None	None
<b>27-0000</b>	<b>Arts, Design, Entertainment, Sports, and Media Occupations</b>	<b>24,830</b>	<b>24,900</b>	<b>70</b>	<b>0.31</b>	<b>2,640</b>			
<b>27-1000</b>	<b>Art and Design Workers</b>	<b>7,840</b>	<b>7,830</b>	<b>-10</b>	<b>-0.09</b>	<b>800</b>			
27-1011	Art Directors	560	550	-10	-0.54	60	Bachelor's degree	5 years or more	None
27-1012	Craft Artists	460	470	10	1.09	50	No formal educational credential	None	Long-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	140	140	0	0.00	10	Bachelor's degree	None	Long-term on-the-job training
27-1014	Special Effects Artists and Animators	450	450	0	0.89	50	Bachelor's degree	None	None
27-1021	Commercial and Industrial Designers	130	130	0	0.77	10	Bachelor's degree	None	None
27-1023	Floral Designers	590	570	-20	-3.24	60	High school diploma or equivalent	None	Moderate-term on-the-job training
27-1024	Graphic Designers	2,260	2,240	-20	-1.10	190	Bachelor's degree	None	None
27-1025	Interior Designers	820	820	0	-0.37	70	Bachelor's degree	None	None
27-1026	Merchandise Displayers and Window Trimmers	2,010	2,040	30	1.79	260	High school diploma or equivalent	None	Short-term on-the-job training
27-1027	Set and Exhibit Designers	50	50	0	-1.92	10	Bachelor's degree	None	None
<b>27-2000</b>	<b>Entertainers and Performers, Sports and Related Workers</b>	<b>6,220</b>	<b>6,340</b>	<b>120</b>	<b>1.80</b>	<b>850</b>			
27-2011	Actors	90	90	0	1.16	10	Some college, no degree	None	Long-term on-the-job training
27-2012	Producers and Directors	740	730	-10	-1.75	60	Bachelor's degree	Less than 5 years	None
27-2021	Athletes and Sports Competitors	290	300	10	3.86	40	No formal educational credential	None	Long-term on-the-job training
27-2022	Coaches and Scouts	3,120	3,210	90	2.75	460	Bachelor's degree	None	None
27-2032	Choreographers	210	220	10	3.37	40	High school diploma or equivalent	5 years or more	Long-term on-the-job training
27-2041	Music Directors and Composers	370	370	0	0.54	40	Bachelor's degree	Less than 5 years	None
27-2042	Musicians and Singers	960	960	0	0.63	130	No formal educational credential	None	Long-term on-the-job training
27-2091	Disc Jockeys, Except Radio	80	80	0	0.00	10	High school diploma or equivalent	None	Short-term on-the-job training
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	110	110	0	-0.88	10	No formal educational credential	None	Short-term on-the-job training
<b>27-3000</b>	<b>Media and Communication Workers</b>	<b>7,400</b>	<b>7,330</b>	<b>-70</b>	<b>-0.89</b>	<b>660</b>			
27-3011	Broadcast Announcers and Radio Disc Jockeys	310	300	-10	-3.87	20	Bachelor's degree	None	None
27-3022	Reporters and Correspondents	120	120	0	-4.84	0			
27-3023	News Analysts, Reporters, and Journalists	370	350	-20	-6.72	30	Bachelor's degree	None	None
27-3031	Public Relations Specialists	2,800	2,810	10	0.29	250	Bachelor's degree	None	None
27-3041	Editors	920	870	-50	-5.74	70	Bachelor's degree	Less than 5 years	None
27-3042	Technical Writers	890	910	20	1.80	90	Bachelor's degree	Less than 5 years	Short-term on-the-job training
27-3043	Writers and Authors	1,230	1,220	-10	-0.57	120	Bachelor's degree	None	Long-term on-the-job training
27-3091	Interpreters and Translators	660	680	20	2.27	80	Bachelor's degree	None	None
27-4000	Media and Communication Equipment Workers	3,370	3,400	30	1.13	330			
27-4011	Audio and Video Technicians	760	780	20	2.65	80	Postsecondary non-degree award	None	Short-term on-the-job training
27-4012	Broadcast Technicians	240	230	-10	-2.98	20	Associate's degree	None	Short-term on-the-job training
27-4014	Sound Engineering Technicians	120	110	-10	-3.48	10	Postsecondary non-degree award	None	Short-term on-the-job training
27-4021	Photographers	1,390	1,420	30	2.45	140	High school diploma or equivalent	None	Moderate-term on-the-job training
27-4031	Camera Operators, Television, Video, and Film	520	510	-10	-0.97	50	Bachelor's degree	None	None

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2022 - 2024

Code	Occupation Title	Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification		
		2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>		Typical on-the-job Training <sup>4</sup>
27-4032	Film and Video Editors	280	270	-10	-0.36	30	Bachelor's degree	None		None
27-4099	Media and Communication Equipment Workers, All Other	70	70	0	1.43	10	High school diploma or equivalent	None		Short-term on-the-job training
<b>29-0000</b>	<b>Healthcare Practitioners and Technical Occupations</b>	<b>122,410</b>	<b>123,920</b>	<b>1,510</b>	<b>1.23</b>	<b>7,840</b>				
<b>29-1000</b>	<b>Health Diagnosing or Treating Practitioners</b>	<b>73,260</b>	<b>74,170</b>	<b>910</b>	<b>1.24</b>	<b>4,150</b>				
29-1011	Chiropractors	720	730	10	0.69	20	Doctoral or professional degree	None		None
29-1021	Dentists, General	1,520	1,530	10	0.59	50	Doctoral or professional degree	None		None
29-1029	Dentists, All Other Specialists	70	70	0	1.49	0	Doctoral or professional degree	None		Internship/residency
29-1031	Dietitians and Nutritionists	930	940	10	0.86	70	Bachelor's degree	None		Internship/residency
29-1041	Optometrists	760	770	10	1.19	30	Doctoral or professional degree	None		None
29-1051	Pharmacists	4,260	4,290	30	0.66	180	Doctoral or professional degree	None		None
29-1062	Family and General Practitioners	930	940	10	1.51	10				
29-1063	Internists, General	160	160	0	1.94	0				
29-1066	Psychiatrists	60	70	10	1.56	0				
29-1067	Surgeons	90	100	10	2.13	0				
29-1069	Physicians and Surgeons, All Other	580	590	10	1.89	10				
29-1071	Physician Assistants	1,750	1,820	70	3.59	130	Master's degree	None		None
29-1081	Podiatrists	60	60	0	-1.67	0	Doctoral or professional degree	None		Internship/residency
29-1122	Occupational Therapists	960	980	20	2.18	70	Master's degree	None		None
29-1123	Physical Therapists	2,350	2,410	60	2.42	130	Doctoral or professional degree	None		None
29-1124	Radiation Therapists	350	350	0	0.85	20	Associate's degree	None		None
29-1125	Recreational Therapists	180	180	0	0.00	10	Bachelor's degree	None		None
29-1126	Respiratory Therapists	2,130	2,200	70	3.00	150	Associate's degree	None		None
29-1127	Speech-Language Pathologists	1,800	1,880	80	4.67	150	Master's degree	None		Internship/residency
29-1128	Exercise Physiologists	570	580	10	1.05	40	Bachelor's degree	None		None
29-1129	Therapists, All Other	100	100	0	-1.02	10	Bachelor's degree	None		None
29-1131	Veterinarians	1,400	1,460	60	3.70	70	Doctoral or professional degree	None		None
29-1141	Registered Nurses	40,850	41,140	290	0.70	2,480	Bachelor's degree	None		None
29-1151	Nurse Anesthetists	370	380	10	1.60	20	Master's degree	None		None
29-1171	Nurse Practitioners	2,310	2,450	140	5.66	190	Master's degree	None		None
29-1181	Audiologists	90	90	0	3.30	10	Doctoral or professional degree	None		None
29-1211	Anesthesiologists	510	500	-10	-0.99	10	Doctoral or professional degree	None		Internship/residency
29-1212	Cardiologists	120	130	10	1.61	0	Doctoral or professional degree	None		None
29-1214	Emergency Medicine Physicians	220	230	10	1.80	10	Doctoral or professional degree	None		Internship/residency
29-1215	Family Medicine Physicians	1,020	1,020	0	0.00	30	Doctoral or professional degree	None		Internship/residency
29-1216	General Internal Medicine Physicians	360	350	-10	-1.12	10	Doctoral or professional degree	None		Internship/residency
29-1218	Obstetricians and Gynecologists	120	120	0	-1.61	0	Doctoral or professional degree	None		Internship/residency
29-1221	Pediatricians, General	100	90	-10	-2.08	0	Doctoral or professional degree	None		Internship/residency
29-1222	Physicians, Pathologists	170	170	0	1.75	10	Doctoral or professional degree	None		Internship/residency
29-1223	Psychiatrists	140	140	0	0.74	0	Doctoral or professional degree	None		Internship/residency
29-1224	Radiologists	520	530	10	1.54	20	Doctoral or professional degree	None		Internship/residency
29-1229	Physicians, All Other	2,010	2,010	0	0.20	60	Doctoral or professional degree	None		Internship/residency
29-1249	Surgeons, All Other	280	290	10	1.79	10	Doctoral or professional degree	None		Internship/residency
29-1292	Dental Hygienists	1,690	1,700	10	1.07	120	Associate's degree	None		None
29-1299	Healthcare Diagnosing or Treating Practitioners, All Other	310	320	10	0.64	20	Master's degree	None		None
<b>29-2000</b>	<b>Health Technologists and Technicians</b>	<b>45,990</b>	<b>46,540</b>	<b>550</b>	<b>1.19</b>	<b>3,490</b>				
29-2010	Clinical Laboratory Technologists and Technicians	5,100	5,150	50	0.98	380	Bachelor's degree	None		None
29-2021	Dental Hygienists	1,170	1,200	30	2.22	10				
29-2031	Cardiovascular Technologists and Technicians	920	930	10	0.43	60	Associate's degree	None		None
29-2032	Diagnostic Medical Sonographers	1,200	1,220	20	1.75	80	Associate's degree	None		None
29-2033	Nuclear Medicine Technologists	270	270	0	-0.37	10	Associate's degree	None		None
29-2034	Radiologic Technologists and Technicians	3,490	3,510	20	0.57	200	Associate's degree	None		None
29-2035	Magnetic Resonance Imaging Technologists	670	670	0	0.00	40	Associate's degree	Less than 5 years		None
29-2036	Medical Dosimetrists	60	60	0	0.00	0	Bachelor's degree	None		None
29-2041	Emergency Medical Technicians and Paramedics	1,160	1,180	20	1.81	10				
29-2042	Emergency Medical Technicians	1,040	1,060	20	1.93	90	Postsecondary non-degree award	None		None
29-2043	Paramedics	1,290	1,320	30	2.01	80	Postsecondary non-degree award	Less than 5 years		None
29-2051	Dietetic Technicians	260	260	0	0.77	30	Associate's degree	None		None
29-2052	Pharmacy Technicians	5,350	5,480	130	2.43	550	High school diploma or equivalent	None		Moderate-term on-the-job training
29-2053	Psychiatric Technicians	1,300	1,320	20	1.00	120	Postsecondary non-degree award	Less than 5 years		Short-term on-the-job training
29-2055	Surgical Technologists	2,290	2,310	20	0.48	160	Postsecondary non-degree award	None		None
29-2056	Veterinary Technologists and Technicians	1,010	1,040	30	3.17	120	Associate's degree	None		None
29-2057	Ophthalmic Medical Technicians	340	350	10	2.04	40	Postsecondary non-degree award	None		None
29-2061	Licensed Practical and Licensed Vocational Nurses	13,890	14,000	110	0.79	1,180	Postsecondary non-degree award	None		None
29-2071	Medical Records and Health Information Technicians	1,070	1,090	20	1.69	10				
29-2072	Medical Records Specialists	1,890	1,900	10	0.64	140	Postsecondary non-degree award	None		None
29-2081	Opticians, Dispensing	790	800	10	1.39	70	High school diploma or equivalent	None		Long-term on-the-job training
29-2091	Orthotists and Prosthetists	90	90	0	-1.06	10	Master's degree	None		Internship/residency
29-2099	Health Technologists and Technicians, All Other	1,290	1,300	10	1.24	100	Postsecondary non-degree award	None		None
<b>29-9000</b>	<b>Other Healthcare Practitioners and Technical Occupations</b>	<b>3,160</b>	<b>3,210</b>	<b>50</b>	<b>1.71</b>	<b>200</b>				
29-9011	Occupational Health and Safety Specialists	430	440	10	3.05	10				
29-9021	Health Information Technologists and Medical Registrars	1,870	1,900	30	1.55	130	Associate's degree	None		None
29-9091	Athletic Trainers	270	280	10	3.37	20	Master's degree	None		None
29-9093	Surgical Assistants	150	150	0	0.66	10	Postsecondary non-degree award	None		None
29-9099	Healthcare Practitioners and Technical Workers, All Other	390	390	0	-0.26	30	Postsecondary non-degree award	None		None
<b>31-0000</b>	<b>Healthcare Support Occupations</b>	<b>63,040</b>	<b>64,290</b>	<b>1,250</b>	<b>1.98</b>	<b>8,600</b>				
<b>31-1000</b>	<b>Nursing, Psychiatric, and Home Health Aides</b>	<b>10,000</b>	<b>10,120</b>	<b>120</b>	<b>1.18</b>	<b>60</b>				
31-1011	Home Health Aides	2,720	2,780	60	2.13	30				
31-1013	Psychiatric Aides	180	180	0	0.57	0				
31-1014	Nursing Assistants	6,840	6,900	60	0.82	30				

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Occupation		Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification		
Code	Title	2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>	Typical on-the-job Training <sup>4</sup>	
31-1015	Orderlies	260	270	10	1.14	0				
31-1100	Home Health and Personal Care Aides; and Nursing Assistants, Orderlies, and Psychiatric Aides	28,640	29,250	610	2.12	4,660				
31-1120	Home Health and Personal Care Aides	13,440	13,950	510	3.82	2,330	High school diploma or equivalent	None		Short-term on-the-job training
31-1131	Nursing Assistants	14,530	14,620	90	0.63	2,230	Postsecondary non-degree award	None		None
<b>31-2000</b>	<b>Occupational Therapy and Physical Therapist Assistants and Aides</b>	<b>3,010</b>	<b>3,150</b>	<b>140</b>	<b>4.69</b>	<b>510</b>				
31-2011	Occupational Therapy Assistants	680	720	40	5.13	130	Associate's degree	None		None
31-2012	Occupational Therapy Aides	70	70	0	1.41	10	High school diploma or equivalent	None		Short-term on-the-job training
31-2021	Physical Therapist Assistants	1,550	1,630	80	4.96	260	Associate's degree	None		None
31-2022	Physical Therapist Aides	700	730	30	3.99	110	High school diploma or equivalent	None		Short-term on-the-job training
<b>31-9000</b>	<b>Other Healthcare Support Occupations</b>	<b>21,400</b>	<b>21,780</b>	<b>380</b>	<b>1.78</b>	<b>3,360</b>				
31-9091	Dental Assistants	4,240	4,280	40	1.06	630	Postsecondary non-degree award	None		None
31-9092	Medical Assistants	9,560	9,760	200	2.11	1,440	Postsecondary non-degree award	None		None
31-9093	Medical Equipment Preparers	720	730	10	0.55	100	High school diploma or equivalent	None		Moderate-term on-the-job training
31-9094	Medical Transcriptionists	700	700	0	1.01	120	Postsecondary non-degree award	None		None
31-9095	Pharmacy Aides	930	910	-20	-2.25	150	High school diploma or equivalent	None		Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	1,790	1,850	60	3.40	380	High school diploma or equivalent	None		Short-term on-the-job training
31-9097	Phlebotomists	2,020	2,080	60	2.82	320	Postsecondary non-degree award	None		None
<b>33-0000</b>	<b>Protective Service Occupations</b>	<b>37,980</b>	<b>38,760</b>	<b>780</b>	<b>2.04</b>	<b>4,600</b>				
<b>33-1000</b>	<b>Supervisors of Protective Service Workers</b>	<b>5,470</b>	<b>5,610</b>	<b>140</b>	<b>2.58</b>	<b>490</b>				
33-1011	First-Line Supervisors of Correctional Officers	520	520	0	0.58	50	High school diploma or equivalent	Less than 5 years		None
33-1012	First-Line Supervisors of Police and Detectives	2,650	2,730	80	2.86	220	High school diploma or equivalent	Less than 5 years		Moderate-term on-the-job training
33-1021	First-Line Supervisors of Firefighting and Prevention Workers	1,200	1,230	30	2.92	110	Postsecondary non-degree award	Less than 5 years		Moderate-term on-the-job training
33-1091	First-Line Supervisors of Security Workers	650	670	20	2.31	70	High school diploma or equivalent	Less than 5 years		None
33-1099	First-Line Supervisors of Protective Service Workers, All Other	420	440	20	2.83	50	High school diploma or equivalent	Less than 5 years		None
<b>33-2000</b>	<b>Firefighting and Prevention Workers</b>	<b>4,210</b>	<b>4,350</b>	<b>140</b>	<b>3.27</b>	<b>410</b>				
33-2011	Firefighters	3,970	4,100	130	3.25	390	Postsecondary non-degree award	None		Long-term on-the-job training
<b>33-3000</b>	<b>Law Enforcement Workers</b>	<b>13,230</b>	<b>13,440</b>	<b>210</b>	<b>1.59</b>	<b>1,250</b>				
33-3012	Correctional Officers and Jailers	4,490	4,500	10	0.13	420	High school diploma or equivalent	None		Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	940	950	10	1.49	80	High school diploma or equivalent	Less than 5 years		Moderate-term on-the-job training
33-3031	Fish and Game Wardens	180	190	10	1.09	20	Bachelor's degree	None		Moderate-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	7,520	7,710	190	2.54	720	High school diploma or equivalent	None		Moderate-term on-the-job training
<b>33-9000</b>	<b>Other Protective Service Workers</b>	<b>15,070</b>	<b>15,350</b>	<b>280</b>	<b>1.88</b>	<b>2,450</b>				
33-9011	Animal Control Workers	280	290	10	2.84	30	High school diploma or equivalent	None		Moderate-term on-the-job training
33-9031	Gambling Surveillance Officers and Gambling Investigators	1,430	1,480	50	3.64	230	High school diploma or equivalent	Less than 5 years		Moderate-term on-the-job training
33-9032	Security Guards	10,500	10,640	140	1.31	1,520	High school diploma or equivalent	None		Short-term on-the-job training
33-9091	Crossing Guards and Flaggers	270	280	10	1.47	60	No formal educational credential	None		Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	1,020	1,070	50	4.80	300	No formal educational credential	None		Short-term on-the-job training
33-9093	Transportation Security Screeners	280	280	0	0.72	30	High school diploma or equivalent	None		Short-term on-the-job training
33-9094	School Bus Monitors	200	200	0	2.00	40	High school diploma or equivalent	None		Short-term on-the-job training
33-9099	Protective Service Workers, All Other	800	820	20	2.25	220	High school diploma or equivalent	None		Short-term on-the-job training
<b>35-0000</b>	<b>Food Preparation and Serving Related Occupations</b>	<b>164,180</b>	<b>167,530</b>	<b>3,350</b>	<b>2.04</b>	<b>29,160</b>				
<b>35-1000</b>	<b>Supervisors of Food Preparation and Serving Workers</b>	<b>15,800</b>	<b>16,170</b>	<b>370</b>	<b>2.34</b>	<b>2,670</b>				
35-1011	Chefs and Head Cooks	680	700	20	3.53	100	High school diploma or equivalent	5 years or more		None
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	15,120	15,470	350	2.29	2,560	High school diploma or equivalent	Less than 5 years		None
<b>35-2000</b>	<b>Cooks and Food Preparation Workers</b>	<b>58,080</b>	<b>59,270</b>	<b>1,190</b>	<b>2.06</b>	<b>9,800</b>				
35-2011	Cooks, Fast Food	14,410	14,150	-260	-1.80	2,060	No formal educational credential	None		Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	11,320	11,390	70	0.63	1,780	No formal educational credential	None		Short-term on-the-job training
35-2014	Cooks, Restaurant	19,010	20,280	1,270	6.65	3,650	No formal educational credential	Less than 5 years		Moderate-term on-the-job training
35-2015	Cooks, Short Order	3,780	3,810	30	0.74	600	No formal educational credential	None		Short-term on-the-job training
35-2021	Food Preparation Workers	9,150	9,240	90	0.99	1,650	No formal educational credential	None		Short-term on-the-job training
<b>35-3000</b>	<b>Food and Beverage Serving Workers</b>	<b>77,940</b>	<b>79,390</b>	<b>1,450</b>	<b>1.86</b>	<b>14,060</b>				
35-3011	Bartenders	8,310	8,630	320	3.94	1,620	No formal educational credential	None		Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	12,040	12,280	240	2.02	120				
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,010	1,020	10	1.59	10				
35-3023	Fast Food and Counter Workers	28,020	28,370	350	1.25	6,270	No formal educational credential	None		Short-term on-the-job training
35-3031	Waiters and Waitresses	27,150	27,640	490	1.82	5,800	No formal educational credential	None		Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1,420	1,440	20	1.41	240	No formal educational credential	None		Short-term on-the-job training
<b>35-9000</b>	<b>Other Food Preparation and Serving Related Workers</b>	<b>12,360</b>	<b>12,700</b>	<b>340</b>	<b>2.74</b>	<b>2,650</b>				
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	3,920	4,060	140	3.50	790	No formal educational credential	None		Short-term on-the-job training
35-9021	Dishwashers	4,180	4,270	90	1.98	760	No formal educational credential	None		Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	4,130	4,250	120	2.81	1,070	No formal educational credential	None		Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	130	130	0	2.40	30	No formal educational credential	None		Short-term on-the-job training
<b>37-0000</b>	<b>Building and Grounds Cleaning and Maintenance Occupations</b>	<b>54,730</b>	<b>55,420</b>	<b>690</b>	<b>1.27</b>	<b>7,770</b>				
<b>37-1000</b>	<b>Supervisors of Building and Grounds Cleaning and Maintenance Workers</b>	<b>5,310</b>	<b>5,330</b>	<b>20</b>	<b>0.26</b>	<b>590</b>				
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	3,000	3,010	10	0.37	350	High school diploma or equivalent	Less than 5 years		None
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	2,310	2,310	0	0.13	240	High school diploma or equivalent	Less than 5 years		None
<b>37-2000</b>	<b>Building Cleaning and Pest Control Workers</b>	<b>35,910</b>	<b>36,380</b>	<b>470</b>	<b>1.32</b>	<b>5,290</b>				
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	19,800	20,110	310	1.60	2,940	No formal educational credential	None		Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	14,840	14,950	110	0.74	2,150	No formal educational credential	None		Short-term on-the-job training
37-2019	Building Cleaning Workers, All Other	210	220	10	3.79	30	No formal educational credential	None		Short-term on-the-job training
37-2021	Pest Control Workers	1,060	1,100	40	3.57	170	High school diploma or equivalent	None		Moderate-term on-the-job training
<b>37-3000</b>	<b>Grounds Maintenance Workers</b>	<b>13,510</b>	<b>13,710</b>	<b>200</b>	<b>1.54</b>	<b>1,880</b>				
37-3011	Landscaping and Groundskeeping Workers	11,780	11,960	180	1.54	1,640	No formal educational credential	None		Short-term on-the-job training
37-3013	Tree Trimmers and Pruners	1,320	1,340	20	1.29	190	High school diploma or equivalent	None		Short-term on-the-job training
<b>39-0000</b>	<b>Personal Care and Service Occupations</b>	<b>48,610</b>	<b>49,530</b>	<b>920</b>	<b>1.91</b>	<b>7,860</b>				
<b>39-1000</b>	<b>Supervisors of Personal Care and Service Workers</b>	<b>3,460</b>	<b>3,530</b>	<b>70</b>	<b>1.79</b>	<b>350</b>				
39-1010	First-Line Supervisors of Entertainment and Recreation Workers	560	580	20	2.49	80				
39-1013	First-Line Supervisors of Gambling Services Workers	700	720	20	3.29	100	High school diploma or equivalent	Less than 5 years		None
39-1014	First-Line Supervisors of Entertainment And Recreation Workers, Except Gambling Services	460	470	10	0.87	60	High school diploma or equivalent	Less than 5 years		None

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2022 - 2024

Occupation		Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification	
Code	Title	2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>	Typical on-the-job Training <sup>4</sup>
39-1021	First-Line Supervisors of Personal Service Workers	600	610	10	1.82	10			
39-1022	First-Line Supervisors of Personal Service Workers	920	920	0	0.55	110	High school diploma or equivalent	Less than 5 years	None
39-1098	First-Line Supervisors of Personal Service & Entertainment and Recreation Workers, Exc. Gambling Services	220	230	10	2.26	0			
<b>39-2000</b>	<b>Animal Care and Service Workers</b>	<b>4,580</b>	<b>4,780</b>	<b>200</b>	<b>4.36</b>	<b>930</b>			
39-2011	Animal Trainers	1,110	1,160	50	5.16	200	High school diploma or equivalent	None	Moderate-term on-the-job training
39-2021	Animal Caretakers	3,480	3,620	140	4.11	730	High school diploma or equivalent	None	Short-term on-the-job training
<b>39-3000</b>	<b>Entertainment Attendants and Related Workers</b>	<b>5,440</b>	<b>5,650</b>	<b>210</b>	<b>3.82</b>	<b>1,380</b>			
39-3011	Gambling Dealers	1,950	2,030	80	4.00	380	High school diploma or equivalent	None	Short-term on-the-job training
39-3012	Gambling and Sports Book Writers and Runners	220	230	10	3.64	40	High school diploma or equivalent	None	Short-term on-the-job training
39-3019	Gambling Service Workers, All Other	50	50	0	4.00	10	High school diploma or equivalent	None	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,120	1,150	30	2.76	340	No formal educational credential	None	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	1,850	1,930	80	4.38	540	No formal educational credential	None	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	150	160	10	3.31	40	High school diploma or equivalent	None	Short-term on-the-job training
<b>39-4000</b>	<b>Funeral Service Workers</b>	<b>1,020</b>	<b>990</b>	<b>-30</b>	<b>-3.43</b>	<b>140</b>			
39-4011	Embalmers	100	100	0	-4.81	10	Associate's degree	None	Long-term on-the-job training
39-4021	Funeral Attendants	530	510	-20	-3.93	70	High school diploma or equivalent	None	Short-term on-the-job training
39-4031	Morticians, Undertakers, and Funeral Arrangers	340	330	-10	-2.36	40	Associate's degree	None	Long-term on-the-job training
<b>39-5000</b>	<b>Personal Appearance Workers</b>	<b>8,690</b>	<b>8,790</b>	<b>100</b>	<b>1.12</b>	<b>1,240</b>			
39-5012	Hairdressers, Hairstylists, and Cosmetologists	7,460	7,540	80	1.02	1,070	Postsecondary non-degree award	None	None
39-5094	Skincare Specialists	490	500	10	2.25	80	Postsecondary non-degree award	None	None
<b>39-6000</b>	<b>Baggage Porters, Bellhops, and Concierges</b>	<b>1,180</b>	<b>1,220</b>	<b>40</b>	<b>3.48</b>	<b>210</b>			
39-6011	Baggage Porters and Bellhops	480	500	20	3.11	80	High school diploma or equivalent	None	Short-term on-the-job training
39-6012	Concierges	700	720	20	3.73	120	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>39-7000</b>	<b>Tour and Travel Guides</b>	<b>370</b>	<b>380</b>	<b>10</b>	<b>3.28</b>	<b>80</b>			
39-7010	Tour and Travel Guides	370	380	10	3.28	80	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>39-9000</b>	<b>Other Personal Care and Service Workers</b>	<b>23,860</b>	<b>24,210</b>	<b>350</b>	<b>1.44</b>	<b>3,540</b>			
39-9011	Childcare Workers	10,370	10,310	-60	-0.64	1,700	High school diploma or equivalent	None	Short-term on-the-job training
39-9021	Personal Care Aides	4,700	4,800	100	2.19	50			
39-9031	Exercise Trainers and Group Fitness Instructors	4,610	4,850	240	5.07	950	High school diploma or equivalent	None	Short-term on-the-job training
39-9032	Recreation Workers	2,720	2,780	60	2.13	580	High school diploma or equivalent	None	Short-term on-the-job training
39-9041	Residential Advisors	1,010	1,020	10	0.99	180	High school diploma or equivalent	None	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	410	420	10	1.21	70	High school diploma or equivalent	None	Short-term on-the-job training
<b>41-0000</b>	<b>Sales and Related Occupations</b>	<b>176,630</b>	<b>178,560</b>	<b>1,930</b>	<b>1.09</b>	<b>25,310</b>			
<b>41-1000</b>	<b>Supervisors of Sales Workers</b>	<b>28,750</b>	<b>28,640</b>	<b>-110</b>	<b>-0.36</b>	<b>2,980</b>			
41-1011	First-Line Supervisors of Retail Sales Workers	22,580	22,580	0	-0.02	2,470	High school diploma or equivalent	Less than 5 years	None
41-1012	First-Line Supervisors of Non-Retail Sales Workers	6,160	6,070	-90	-1.59	510	High school diploma or equivalent	Less than 5 years	None
<b>41-2000</b>	<b>Retail Sales Workers</b>	<b>99,920</b>	<b>101,330</b>	<b>1,410</b>	<b>1.41</b>	<b>17,120</b>			
41-2011	Cashiers	42,800	43,500	700	1.65	8,490	No formal educational credential	None	Short-term on-the-job training
41-2012	Gambling Change Persons and Booth Cashiers	1,600	1,660	60	3.62	340	No formal educational credential	None	Short-term on-the-job training
41-2021	Counter and Rental Clerks	2,880	2,900	20	0.73	360	No formal educational credential	None	Short-term on-the-job training
41-2022	Parts Salespersons	3,840	3,870	30	0.96	500	No formal educational credential	None	Moderate-term on-the-job training
41-2031	Retail Salespersons	48,810	49,390	580	1.20	7,430	No formal educational credential	None	Short-term on-the-job training
<b>41-3000</b>	<b>Sales Representatives, Services</b>	<b>16,700</b>	<b>16,990</b>	<b>290</b>	<b>1.74</b>	<b>1,800</b>			
41-3011	Advertising Sales Agents	750	710	-40	-4.80	70	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	6,740	6,880	140	2.12	690	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	2,500	2,570	70	3.00	250	Bachelor's degree	None	Moderate-term on-the-job training
41-3041	Travel Agents	310	280	-30	-7.54	30	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3091	Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel	6,310	6,440	130	2.08	750	High school diploma or equivalent	None	Moderate-term on-the-job training
41-3099	Sales Representatives, Services, All Other	100	110	10	0.96	0			
<b>41-4000</b>	<b>Sales Representatives, Wholesale and Manufacturing</b>	<b>15,460</b>	<b>15,750</b>	<b>290</b>	<b>1.86</b>	<b>1,710</b>			
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	5,880	5,970	90	1.67	650	Bachelor's degree	None	Moderate-term on-the-job training
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	9,580	9,770	190	1.98	1,070	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>41-9000</b>	<b>Other Sales and Related Workers</b>	<b>15,810</b>	<b>15,860</b>	<b>50</b>	<b>0.32</b>	<b>1,700</b>			
41-9011	Demonstrators and Product Promoters	360	360	0	1.97	70	No formal educational credential	None	Short-term on-the-job training
41-9021	Real Estate Brokers	1,830	1,820	-10	-0.27	160	High school diploma or equivalent	Less than 5 years	None
41-9022	Real Estate Sales Agents	8,840	8,820	-20	-0.23	780	High school diploma or equivalent	None	Moderate-term on-the-job training
41-9031	Sales Engineers	380	390	10	2.11	40	Bachelor's degree	None	Moderate-term on-the-job training
41-9041	Telemarketers	1,360	1,350	-10	-0.66	200	No formal educational credential	None	Short-term on-the-job training
<b>43-0000</b>	<b>Office and Administrative Support Occupations</b>	<b>248,080</b>	<b>248,050</b>	<b>-30</b>	<b>-0.01</b>	<b>28,930</b>			
<b>43-1000</b>	<b>Supervisors of Office and Administrative Support Workers</b>	<b>20,820</b>	<b>20,940</b>	<b>120</b>	<b>0.54</b>	<b>2,300</b>			
43-1011	First-Line Supervisors of Office and Administrative Support Workers	20,820	20,940	120	0.54	2,300	High school diploma or equivalent	Less than 5 years	None
<b>43-2000</b>	<b>Communications Equipment Operators</b>	<b>820</b>	<b>780</b>	<b>-40</b>	<b>-4.39</b>	<b>80</b>			
43-2011	Switchboard Operators, Including Answering Service	770	740	-30	-4.42	70	High school diploma or equivalent	None	Short-term on-the-job training
<b>43-3000</b>	<b>Financial Clerks</b>	<b>46,380</b>	<b>46,240</b>	<b>-140</b>	<b>-0.31</b>	<b>5,390</b>			
43-3011	Bill and Account Collectors	3,170	3,170	0	0.09	370	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3021	Billing and Posting Clerks	7,050	7,040	-10	-0.06	800	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	24,130	24,100	-30	-0.12	2,950	Some college, no degree	None	Moderate-term on-the-job training
43-3041	Gambling Cage Workers	1,130	1,170	40	3.82	150	High school diploma or equivalent	None	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	2,490	2,450	-40	-1.52	280	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3061	Procurement Clerks	1,010	1,000	-10	-1.28	100	High school diploma or equivalent	None	Moderate-term on-the-job training
43-3071	Tellers	7,290	7,180	-110	-1.54	750	High school diploma or equivalent	None	Short-term on-the-job training
43-3099	Financial Clerks, All Other	110	120	10	3.51	10	High school diploma or equivalent	None	Short-term on-the-job training
<b>43-4000</b>	<b>Information and Record Clerks</b>	<b>67,610</b>	<b>68,060</b>	<b>450</b>	<b>0.67</b>	<b>9,340</b>			
43-4011	Brokerage Clerks	290	290	0	0.35	30	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4031	Court, Municipal, and License Clerks	3,310	3,440	130	4.08	450	High school diploma or equivalent	None	Long-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	400	400	0	0.00	40	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4051	Customer Service Representatives	34,170	34,580	410	1.21	5,040	High school diploma or equivalent	None	Short-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	430	440	10	1.84	50	High school diploma or equivalent	None	Moderate-term on-the-job training
43-4071	File Clerks	1,710	1,670	-40	-2.45	190	High school diploma or equivalent	None	Short-term on-the-job training

**OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2022 - 2024**

Code	Occupation Title	Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification		
		2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>	Typical on-the-job Training <sup>4</sup>	
43-4081	Hotel, Motel, and Resort Desk Clerks	2,590	2,650	60	2.20	500	High school diploma or equivalent	None		Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	2,790	2,740	-50	-1.72	340	High school diploma or equivalent	None		Short-term on-the-job training
43-4121	Library Assistants, Clerical	1,560	1,560	0	0.32	260	High school diploma or equivalent	None		Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	3,890	3,940	50	1.26	400	High school diploma or equivalent	None		Short-term on-the-job training
43-4141	New Accounts Clerks	1,600	1,570	-30	-1.50	170	High school diploma or equivalent	None		Moderate-term on-the-job training
43-4151	Order Clerks	1,420	1,390	-30	-2.32	150	Some college, no degree	None		Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	880	880	0	-0.23	100	Associate's degree	None		None
43-4171	Receptionists and Information Clerks	9,840	9,790	-50	-0.58	1,310	High school diploma or equivalent	None		Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	1,970	2,010	40	1.93	250	High school diploma or equivalent	None		Short-term on-the-job training
<b>43-5000</b>	<b>Material Recording, Scheduling, Dispatching, and Distributing Workers</b>	<b>37,580</b>	<b>38,010</b>	<b>430</b>	<b>1.16</b>	<b>3,330</b>				
43-5011	Cargo and Freight Agents	620	640	20	3.38	80	High school diploma or equivalent	None		Short-term on-the-job training
43-5021	Couriers and Messengers	3,260	3,200	-60	-1.84	320	High school diploma or equivalent	None		Short-term on-the-job training
43-5031	Public Safety Telecommunicators	1,780	1,830	50	2.58	210	High school diploma or equivalent	None		Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	2,190	2,210	20	0.96	240	High school diploma or equivalent	None		Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	390	390	0	-0.51	30	High school diploma or equivalent	None		Short-term on-the-job training
43-5051	Postal Service Clerks	1,050	1,060	10	1.05	100	High school diploma or equivalent	None		Short-term on-the-job training
43-5052	Postal Service Mail Carriers	4,040	4,080	40	1.11	340	High school diploma or equivalent	None		Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	750	750	0	0.00	70	High school diploma or equivalent	None		Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	6,540	6,640	100	1.59	780	High school diploma or equivalent	None		Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Inventory Clerks	8,760	8,760	0	0.01	960	High school diploma or equivalent	None		Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	7,570	7,800	230	2.96	110				
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	620	650	30	4.03	80	High school diploma or equivalent	None		Short-term on-the-job training
<b>43-6000</b>	<b>Secretaries and Administrative Assistants</b>	<b>44,180</b>	<b>43,520</b>	<b>-660</b>	<b>-1.50</b>	<b>4,790</b>				
43-6011	Executive Secretaries and Executive Administrative Assistants	8,120	7,820	-300	-3.71	770	High school diploma or equivalent	Less than 5 years		None
43-6012	Legal Secretaries and Administrative Assistants	1,300	1,250	-50	-4.30	130	High school diploma or equivalent	None		Moderate-term on-the-job training
43-6013	Medical Secretaries and Administrative Assistants	9,980	10,100	120	1.22	1,220	High school diploma or equivalent	None		Moderate-term on-the-job training
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	24,780	24,350	-430	-1.72	2,680	High school diploma or equivalent	None		Short-term on-the-job training
<b>43-9000</b>	<b>Other Office and Administrative Support Workers</b>	<b>30,690</b>	<b>30,510</b>	<b>-180</b>	<b>-0.60</b>	<b>3,710</b>				
43-9011	Computer Operators	70	70	0	1.41	0				
43-9021	Data Entry Keyers	1,950	1,870	-80	-3.85	200	High school diploma or equivalent	None		Short-term on-the-job training
43-9022	Word Processors and Typists	70	70	0	-2.22	10	High school diploma or equivalent	None		Short-term on-the-job training
43-9031	Desktop Publishers	150	140	-10	-6.58	10	Associate's degree	None		Short-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	1,980	2,010	30	1.51	220	High school diploma or equivalent	None		Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	1,230	1,240	10	0.49	170	High school diploma or equivalent	None		Short-term on-the-job training
43-9061	Office Clerks, General	23,290	23,180	-110	-0.48	2,870	High school diploma or equivalent	None		Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	500	500	0	-0.40	70	High school diploma or equivalent	None		Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	110	100	-10	-6.54	10	Bachelor's degree	None		None
43-9111	Statistical Assistants	230	220	-10	-2.65	20	Bachelor's degree	None		None
43-9199	Office and Administrative Support Workers, All Other	1,110	1,110	0	-0.18	130	High school diploma or equivalent	None		Short-term on-the-job training
<b>45-0000</b>	<b>Farming, Fishing, and Forestry Occupations</b>	<b>13,270</b>	<b>13,470</b>	<b>200</b>	<b>1.51</b>	<b>2,230</b>				
<b>45-1000</b>	<b>Supervisors of Farming, Fishing, and Forestry Workers</b>	<b>720</b>	<b>730</b>	<b>10</b>	<b>2.23</b>	<b>110</b>				
45-1011	First-Line Supervisors of Construction Trades and Extraction Workers	720	730	10	2.23	110	High school diploma or equivalent	Less than 5 years		None
<b>45-2000</b>	<b>Agricultural Workers</b>	<b>11,950</b>	<b>12,130</b>	<b>180</b>	<b>1.52</b>	<b>2,030</b>				
45-2011	Agricultural Inspectors	460	470	10	2.85	90	Bachelor's degree	None		Moderate-term on-the-job training
45-2021	Animal Breeders	140	140	0	2.96	20	High school diploma or equivalent	None		Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	500	510	10	0.99	80	No formal educational credential	None		Short-term on-the-job training
45-2091	Agricultural Equipment Operators	900	920	20	2.90	160	No formal educational credential	None		Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	5,080	5,170	90	1.69	860	No formal educational credential	None		Short-term on-the-job training
45-2093	Farmworkers, Farm, Ranch, and Aquacultural Animals	4,770	4,810	40	0.92	790	No formal educational credential	None		Short-term on-the-job training
45-2099	Agricultural Workers, All Other	120	120	0	3.48	20	No formal educational credential	None		Short-term on-the-job training
<b>45-4000</b>	<b>Forest, Conservation, and Logging Workers</b>	<b>560</b>	<b>560</b>	<b>0</b>	<b>0.18</b>	<b>90</b>				
45-4021	Fallers	60	60	0	-3.51	10	High school diploma or equivalent	None		Moderate-term on-the-job training
45-4022	Logging Equipment Operators	370	370	0	0.81	60	High school diploma or equivalent	None		Moderate-term on-the-job training
<b>47-0000</b>	<b>Construction and Extraction Occupations</b>	<b>94,080</b>	<b>96,630</b>	<b>2,550</b>	<b>2.70</b>	<b>10,770</b>				
<b>47-1000</b>	<b>Supervisors of Construction and Extraction Workers</b>	<b>11,460</b>	<b>11,790</b>	<b>330</b>	<b>2.86</b>	<b>1,240</b>				
47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	11,460	11,790	330	2.86	1,240	High school diploma or equivalent	5 years or more		None
<b>47-2000</b>	<b>Construction Trades Workers</b>	<b>61,120</b>	<b>62,360</b>	<b>1,240</b>	<b>2.02</b>	<b>6,580</b>				
47-2011	Boilermakers	90	90	0	1.16	10	High school diploma or equivalent	None		Apprenticeship
47-2021	Brickmasons and Blockmasons	500	510	10	0.60	50	High school diploma or equivalent	None		Apprenticeship
47-2022	Stonemasons	250	260	10	1.18	30	High school diploma or equivalent	None		Apprenticeship
47-2031	Carpenters	8,210	8,280	70	0.83	800	High school diploma or equivalent	None		Apprenticeship
47-2041	Carpet Installers	360	360	0	-1.10	30	No formal educational credential	None		Short-term on-the-job training
47-2044	Tile and Stone Setters	320	320	0	1.57	30	No formal educational credential	None		Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	2,810	2,850	40	1.71	270	No formal educational credential	None		Moderate-term on-the-job training
47-2061	Construction Laborers	12,850	13,080	230	1.84	1,380	No formal educational credential	None		Short-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,250	1,280	30	2.33	140	High school diploma or equivalent	None		Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	6,730	6,900	170	2.54	780	High school diploma or equivalent	None		Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	410	420	10	2.18	40	No formal educational credential	None		Moderate-term on-the-job training
47-2111	Electricians	8,010	8,280	270	3.33	960	High school diploma or equivalent	None		Apprenticeship
47-2121	Glaziers	260	270	10	3.10	30	High school diploma or equivalent	None		Apprenticeship
47-2131	Insulation Workers, Floor, Ceiling, and Wall	450	460	10	2.69	50	No formal educational credential	None		Short-term on-the-job training
47-2132	Insulation Workers, Mechanical	480	490	10	3.14	50	High school diploma or equivalent	None		Apprenticeship
47-2141	Painters, Construction and Maintenance	3,490	3,520	30	0.89	310	No formal educational credential	None		Moderate-term on-the-job training
47-2142	Paperhangers	150	150	0	-1.31	10	No formal educational credential	None		Long-term on-the-job training
47-2151	Pipelayers	830	830	0	0.48	80	No formal educational credential	None		Short-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	6,470	6,650	180	2.81	750	High school diploma or equivalent	None		Apprenticeship
47-2181	Roofers	1,140	1,170	30	2.64	120	No formal educational credential	None		Moderate-term on-the-job training
47-2211	Sheet Metal Workers	3,690	3,740	50	1.35	390	High school diploma or equivalent	None		Apprenticeship
47-2221	Structural Iron and Steel Workers	1,480	1,520	40	3.05	170	High school diploma or equivalent	None		Apprenticeship

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2022 - 2024

Occupation		Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification	
Code	Title	2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>	Typical on-the-job Training <sup>4</sup>
<b>47-3000</b>	<b>Helpers, Construction Trades</b>	<b>3,510</b>	<b>3,600</b>	<b>90</b>	<b>2.62</b>	<b>480</b>			
47-3011	Helpers—Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	260	260	0	1.16	30	No formal educational credential	None	Short-term on-the-job training
47-3013	Helpers—Electricians	1,180	1,210	30	2.55	160	High school diploma or equivalent	None	Short-term on-the-job training
47-3015	Helpers—Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,150	1,190	40	3.21	160	High school diploma or equivalent	None	Short-term on-the-job training
<b>47-4000</b>	<b>Other Construction and Related Workers</b>	<b>8,680</b>	<b>8,910</b>	<b>230</b>	<b>2.72</b>	<b>1,080</b>			
47-4011	Construction and Building Inspectors	2,300	2,350	50	2.39	310	High school diploma or equivalent	5 years or more	Moderate-term on-the-job training
47-4021	Elevator and Escalator Installers and Repairers	250	260	10	3.54	30	High school diploma or equivalent	None	Apprenticeship
47-4031	Fence Erectors	400	410	10	2.23	40	No formal educational credential	None	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	540	540	0	-0.56	70	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	3,230	3,330	100	2.94	380	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	220	220	0	0.45	20	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	1,000	1,030	30	2.89	130	High school diploma or equivalent	None	Moderate-term on-the-job training
47-4090	Miscellaneous Construction and Related Workers	730	770	40	5.62	100	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>47-5000</b>	<b>Extraction Workers</b>	<b>9,310</b>	<b>9,960</b>	<b>650</b>	<b>7.05</b>	<b>1,390</b>			
47-5011	Derrick Operators, Oil and Gas	480	520	40	9.64	80	No formal educational credential	None	Short-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	1,830	1,980	150	7.85	290	No formal educational credential	None	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil and Gas	2,110	2,250	140	6.79	320	No formal educational credential	None	Moderate-term on-the-job training
47-5022	Excavating and Loading Machine and Dragline Operators, Surface Mining	270	280	10	0.73	30	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
47-5023	Earth Drillers, Except Oil and Gas	80	80	0	5.26	10	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	70	80	10	8.57	0			
47-5032	Explosives Workers, Ordnance Handling Experts, and Blasters	710	710	0	0.14	70	High school diploma or equivalent	Less than 5 years	Long-term on-the-job training
47-5051	Rock Splitters, Quarry	70	70	0	2.99	10	No formal educational credential	None	Short-term on-the-job training
47-5071	Roustabouts, Oil and Gas	3,100	3,360	260	8.59	500	No formal educational credential	None	Moderate-term on-the-job training
47-5081	Helpers—Extraction Workers	260	290	30	10.42	50	High school diploma or equivalent	None	Moderate-term on-the-job training
47-5099	Extraction Workers, All Other	140	150	10	4.96	20	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>49-0000</b>	<b>Installation, Maintenance, and Repair Occupations</b>	<b>83,910</b>	<b>85,060</b>	<b>1,150</b>	<b>1.36</b>	<b>8,700</b>			
<b>49-1000</b>	<b>Supervisors of Installation, Maintenance, and Repair Workers</b>	<b>7,520</b>	<b>7,640</b>	<b>120</b>	<b>1.49</b>	<b>760</b>			
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	7,520	7,640	120	1.49	760		Less than 5 years	None
<b>49-2000</b>	<b>Electrical and Electronic Equipment Mechanics, Installers, and Repairers</b>	<b>8,160</b>	<b>8,230</b>	<b>70</b>	<b>0.91</b>	<b>870</b>			
49-2011	Computer, Automated Teller, and Office Machine Repairers	1,450	1,460	10	0.14	160	Some college, no degree	None	Short-term on-the-job training
49-2021	Radio, Cellular, and Tower Equipment Installers and Repairers	250	250	0	0.40	30	Associate's degree	None	Moderate-term on-the-job training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1,920	1,920	0	0.26	220	Postsecondary non-degree award	None	Moderate-term on-the-job training
49-2091	Avionics Technicians	660	670	10	1.21	50	Associate's degree	None	None
49-2092	Electric Motor, Power Tool, and Related Repairers	380	390	10	3.14	40	High school diploma or equivalent	Less than 5 years	Moderate-term on-the-job training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,170	1,190	20	1.88	120	Postsecondary non-degree award	None	Long-term on-the-job training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	570	570	0	0.18	50	Postsecondary non-degree award	Less than 5 years	Moderate-term on-the-job training
49-2098	Security and Fire Alarm Systems Installers	1,420	1,450	30	2.18	170	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>49-3000</b>	<b>Vehicle and Mobile Equipment Mechanics, Installers, and Repairers</b>	<b>26,480</b>	<b>26,580</b>	<b>100</b>	<b>0.39</b>	<b>2,560</b>			
49-3011	Aircraft Mechanics and Service Technicians	4,490	4,410	-80	-1.65	310	Postsecondary non-degree award	None	None
49-3021	Automotive Body and Related Repairers	2,130	2,140	10	0.56	210	High school diploma or equivalent	None	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	120	120	0	0.83	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	9,380	9,320	-60	-0.70	880	Postsecondary non-degree award	None	Short-term on-the-job training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	3,930	4,000	70	1.60	390	High school diploma or equivalent	None	Long-term on-the-job training
49-3041	Farm Equipment Mechanics and Service Technicians	630	660	30	4.75	80	High school diploma or equivalent	None	Long-term on-the-job training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	2,210	2,310	100	4.29	260	High school diploma or equivalent	None	Long-term on-the-job training
49-3043	Rail Car Repairers	200	200	0	-0.51	20	High school diploma or equivalent	None	Long-term on-the-job training
49-3051	Motorboat Mechanics and Service Technicians	230	230	0	2.63	30	High school diploma or equivalent	None	Long-term on-the-job training
49-3052	Motorcycle Mechanics	200	210	10	0.98	20	Postsecondary non-degree award	None	Short-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	670	690	20	2.53	80	High school diploma or equivalent	None	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	320	330	10	3.16	40	High school diploma or equivalent	None	Long-term on-the-job training
49-3093	Tire Repairers and Changers	1,970	1,970	0	0.46	220	High school diploma or equivalent	None	Short-term on-the-job training
<b>49-9000</b>	<b>Other Installation, Maintenance, and Repair Occupations</b>	<b>41,750</b>	<b>42,610</b>	<b>860</b>	<b>2.05</b>	<b>4,520</b>			
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	1,380	1,400	20	1.52	120	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	4,640	4,770	130	2.80	510	Postsecondary non-degree award	None	Long-term on-the-job training
49-9031	Home Appliance Repairers	560	560	0	0.00	60	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9041	Industrial Machinery Mechanics	4,360	4,540	180	4.25	480	High school diploma or equivalent	None	Long-term on-the-job training
49-9043	Maintenance Workers, Machinery	4,340	4,450	110	2.35	510	High school diploma or equivalent	None	Long-term on-the-job training
49-9044	Millwrights	210	220	10	3.86	20	High school diploma or equivalent	None	Apprenticeship
49-9051	Electrical Power-Line Installers and Repairers	1,880	1,910	30	1.86	180	High school diploma or equivalent	None	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	1,340	1,350	10	0.82	150	High school diploma or equivalent	None	Long-term on-the-job training
49-9062	Medical Equipment Repairers	510	520	10	0.58	60	Associate's degree	None	Moderate-term on-the-job training
49-9063	Musical Instrument Repairers and Tuners	170	170	0	0.58	20	High school diploma or equivalent	None	Apprenticeship
49-9069	Precision Instrument and Equipment Repairers, All Other	150	150	0	0.00	20	High school diploma or equivalent	None	Long-term on-the-job training
49-9071	Maintenance and Repair Workers, General	16,840	17,070	230	1.34	1,750	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9081	Wind Turbine Service Technicians	220	260	40	17.73	40	Postsecondary non-degree award	None	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	990	980	-10	-0.30	110	High school diploma or equivalent	None	Short-term on-the-job training
49-9094	Locksmiths and Safe Repairers	140	130	-10	-1.47	10	High school diploma or equivalent	None	Long-term on-the-job training
49-9095	Manufactured Building and Mobile Home Installers	100	100	0	-2.04	10	High school diploma or equivalent	None	Short-term on-the-job training
49-9096	Riggers	260	260	0	2.33	30	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9097	Signal and Track Switch Repairers	120	120	0	0.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
49-9098	Helpers—Installation, Maintenance, and Repair Workers	1,630	1,680	50	2.82	220	High school diploma or equivalent	None	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,170	1,180	10	1.28	130	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>51-0000</b>	<b>Production Occupations</b>	<b>107,330</b>	<b>107,170</b>	<b>-160</b>	<b>-0.15</b>	<b>11,380</b>			
<b>51-1000</b>	<b>Supervisors of Production Workers</b>	<b>8,930</b>	<b>9,040</b>	<b>110</b>	<b>1.18</b>	<b>980</b>			
51-1011	First-Line Supervisors of Production and Operating Workers	8,930	9,040	110	1.18	980	High school diploma or equivalent	Less than 5 years	None
<b>51-2000</b>	<b>Assemblers and Fabricators</b>	<b>17,960</b>	<b>17,600</b>	<b>-360</b>	<b>-2.02</b>	<b>1,250</b>			
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	590	570	-20	-3.40	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	280	280	0	-1.41	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2028	Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers	3,000	2,910	-90	-3.17	290	High school diploma or equivalent	None	Moderate-term on-the-job training

OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2022 - 2024

Occupation		Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification	
Code	Title	2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>	Typical on-the-job Training <sup>4</sup>
51-2031	Engine and Other Machine Assemblers	860	840	-20	-2.56	110	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	1,150	1,120	-30	-2.43	100	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2090	Miscellaneous Assemblers and Fabricators	6,590	6,390	-200	-3.00	650	High school diploma or equivalent	None	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	130	130	0	0.00	0			
51-2098	Assemblers and Fabricators, All Other, Including Team Assemblers	5,240	5,240	0	0.10	0			
<b>51-3000</b>	<b>Food Processing Workers</b>	<b>8,750</b>	<b>8,960</b>	<b>210</b>	<b>2.50</b>	<b>1,310</b>			
51-3011	Bakers	1,800	1,860	60	3.11	290	No formal educational credential	None	Moderate-term on-the-job training
51-3021	Butchers and Meat Cutters	1,320	1,370	50	3.71	190	No formal educational credential	None	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,520	1,560	40	2.10	210	No formal educational credential	None	Short-term on-the-job training
51-3023	Slaughtering and Meat Packers	1,200	1,220	20	2.01	160	No formal educational credential	None	Short-term on-the-job training
51-3092	Food Batchmakers	1,360	1,380	20	1.99	200	High school diploma or equivalent	None	Moderate-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	730	750	20	1.92	140	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>51-4000</b>	<b>Metal Workers and Plastic Workers</b>	<b>26,660</b>	<b>26,900</b>	<b>240</b>	<b>0.93</b>	<b>2,910</b>			
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	940	950	10	0.53	0			
51-4012	Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic	190	190	0	2.15	0			
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	770	750	-20	-2.09	70	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	290	280	-10	-3.07	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	240	240	0	1.27	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	1,870	1,860	-10	-0.11	190	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	100	100	0	-3.00	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	1,220	1,220	0	0.33	160	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	550	550	0	0.55	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	140	140	0	-2.14	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4041	Machinists	3,700	3,740	40	1.30	420	High school diploma or equivalent	None	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	110	120	10	3.60	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	340	330	-10	-2.34	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	1,450	1,420	-30	-2.13	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	2,250	2,270	20	0.80	250	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4111	Tool and Die Makers	320	320	0	0.00	40	Postsecondary non-degree award	None	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	10,410	10,660	250	2.41	1,270	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	350	340	-10	-3.11	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	390	390	0	2.28	40	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4192	Layout Workers, Metal and Plastic	80	80	0	3.80	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4193	Plating Machine Setters, Operators, and Tenders, Metal and Plastic	530	530	0	0.00	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	160	160	0	-1.27	20	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>51-5100</b>	<b>Printing Workers</b>	<b>2,030</b>	<b>1,990</b>	<b>-40</b>	<b>-1.88</b>	<b>200</b>			
51-5111	Prepress Technicians and Workers	150	150	0	-3.97	20	Postsecondary non-degree award	None	None
51-5112	Printing Press Operators	1,620	1,590	-30	-1.97	160	High school diploma or equivalent	None	Moderate-term on-the-job training
51-5113	Print Binding and Finishing Workers	250	250	0	0.00	30	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>51-6000</b>	<b>Textile, Apparel, and Furnishings Workers</b>	<b>5,140</b>	<b>4,990</b>	<b>-150</b>	<b>-2.86</b>	<b>600</b>			
51-6011	Laundry and Dry-Cleaning Workers	3,150	3,110	-40	-1.30	420	No formal educational credential	None	Short-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	420	400	-20	-6.13	40	No formal educational credential	None	Short-term on-the-job training
51-6031	Sewing Machine Operators	740	690	-50	-5.71	70	No formal educational credential	None	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	130	130	0	-3.08	20	No formal educational credential	None	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	110	100	-10	-2.83	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6093	Upholsterers	210	210	0	-0.49	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	220	220	0	-2.24	20	High school diploma or equivalent	None	Short-term on-the-job training
<b>51-7000</b>	<b>Woodworkers</b>	<b>2,550</b>	<b>2,510</b>	<b>-40</b>	<b>-1.53</b>	<b>250</b>			
51-7011	Cabinetmakers and Bench Carpenters	1,670	1,640	-30	-1.74	160	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7021	Furniture Finishers	120	120	0	1.65	20	High school diploma or equivalent	None	Short-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	290	280	-10	-4.81	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	230	220	-10	-4.29	20	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>51-8000</b>	<b>Plant and System Operators</b>	<b>5,570</b>	<b>5,640</b>	<b>70</b>	<b>1.20</b>	<b>610</b>			
51-8013	Power Plant Operators	310	300	-10	-1.97	30	High school diploma or equivalent	None	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	290	290	0	1.04	40	High school diploma or equivalent	None	Long-term on-the-job training
51-8031	Water and Wastewater Treatment Plant and System Operators	2,220	2,230	10	0.50	220	High school diploma or equivalent	None	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	140	150	10	4.20	20	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8092	Gas Plant Operators	550	550	0	1.10	60	High school diploma or equivalent	None	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	1,950	2,000	50	2.36	230	High school diploma or equivalent	None	Moderate-term on-the-job training
51-8099	Plant and System Operators, All Other	80	80	0	1.30	10	High school diploma or equivalent	None	Moderate-term on-the-job training
<b>51-9000</b>	<b>Other Production Occupations</b>	<b>29,750</b>	<b>29,530</b>	<b>-220</b>	<b>-0.73</b>	<b>3,260</b>			
51-9011	Chemical Equipment Operators and Tenders	920	950	30	3.70	110	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	450	450	0	1.35	50	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	520	520	0	0.19	60	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	320	310	-10	-3.41	30	No formal educational credential	None	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,310	1,330	20	1.53	160	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	110	100	-10	-12.28	10	No formal educational credential	None	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	640	630	-10	-0.94	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	820	810	-10	-1.95	80	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	300	300	0	-0.33	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	7,180	6,970	-210	-2.90	770	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	410	400	-10	-2.45	50	High school diploma or equivalent	None	Long-term on-the-job training
51-9081	Dental Laboratory Technicians	310	290	-20	-5.54	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9082	Medical Appliance Technicians	90	90	0	-1.08	10	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	220	230	10	2.70	30	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	2,530	2,560	30	1.15	310	High school diploma or equivalent	None	Moderate-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	770	780	10	1.95	10			
51-9122	Painters, Transportation Equipment	160	160	0	0.61	0			
51-9123	Painting, Coating, and Decorating Workers	100	100	0	-1.03	10	No formal educational credential	None	Moderate-term on-the-job training

**OKLAHOMA SHORT-TERM OCCUPATIONAL OUTLOOK, 2022 - 2024**

Code	Occupation Title	Employment		Employment		Annual Total Openings <sup>1</sup>	Typical Entry-Level Education <sup>2</sup>	Education and Training Classification		
		2022	2024	Number	Percent			Work Experience in a Related Occupation <sup>3</sup>	Typical on-the-job Training <sup>4</sup>	
51-9124	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,680	1,710	30	2.15	190	High school diploma or equivalent	None		Moderate-term on-the-job training
51-9151	Photographic Process Workers and Processing Machine Operators	100	100	0	-1.03	10	High school diploma or equivalent	None		Short-term on-the-job training
51-9161	Computer Numerically Controlled Tool Operators	2,740	2,730	-10	-0.55	280	High school diploma or equivalent	None		Moderate-term on-the-job training
51-9162	Computer Numerically Controlled Tool Programmers	200	210	10	5.13	30	Postsecondary non-degree award	None		Moderate-term on-the-job training
51-9191	Adhesive Bonding Machine Operators and Tenders	180	180	0	1.71	20	High school diploma or equivalent	None		Moderate-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	530	540	10	1.69	70	High school diploma or equivalent	None		Moderate-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	500	500	0	1.21	60	High school diploma or equivalent	None		Long-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,030	1,020	-10	-1.36	120	High school diploma or equivalent	None		Moderate-term on-the-job training
51-9198	Helpers--Production Workers	2,480	2,460	-20	-0.65	370	High school diploma or equivalent	None		Short-term on-the-job training
51-9199	Production Workers, All Other	1,310	1,290	-20	-1.53	140	High school diploma or equivalent	None		Moderate-term on-the-job training
<b>53-0000</b>	<b>Transportation and Material Moving Occupations</b>	<b>141,030</b>	<b>145,710</b>	<b>4,680</b>	<b>3.31</b>	<b>21,130</b>				
<b>53-1000</b>	<b>Supervisors of Transportation and Material Moving Workers</b>	<b>6,570</b>	<b>6,820</b>	<b>250</b>	<b>3.81</b>	<b>910</b>				
53-1047	FirstLine Supervisors of Transportation & Material Moving Workers, Exc Aircraft Cargo Handling Supervisor	6,480	6,720	240	3.75	900	High school diploma or equivalent	Less than 5 years		None
<b>53-2000</b>	<b>Air Transportation Workers</b>	<b>1,080</b>	<b>1,070</b>	<b>-10</b>	<b>-0.09</b>	<b>130</b>				
53-2011	Airline Pilots, Copilots, and Flight Engineers	270	270	0	0.37	30	Bachelor's degree	Less than 5 years		Moderate-term on-the-job training
53-2012	Commercial Pilots	370	360	-10	-2.72	40	Postsecondary non-degree award	None		Moderate-term on-the-job training
53-2021	Air Traffic Controllers	380	390	10	2.37	40	Associate's degree	None		Long-term on-the-job training
<b>53-3000</b>	<b>Motor Vehicle Operators</b>	<b>54,660</b>	<b>56,160</b>	<b>1,500</b>	<b>2.75</b>	<b>7,150</b>				
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	200	210	10	1.49	30	High school diploma or equivalent	None		Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	210	210	0	1.91	0				
53-3022	Bus Drivers, School or Special Client	1,590	1,610	20	1.70	10				
53-3031	Driver/Sales Workers	6,090	6,260	170	2.76	810	High school diploma or equivalent	None		Short-term on-the-job training
53-3032	Heavy and Tractor-Trailer Truck Drivers	28,040	28,530	490	1.74	3,560	Postsecondary non-degree award	None		Short-term on-the-job training
53-3033	Light Truck Drivers	12,400	13,170	770	6.19	1,880	High school diploma or equivalent	None		Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	310	310	0	1.63	0				
53-3051	Bus Drivers, School	2,900	2,940	40	1.38	480	High school diploma or equivalent	None		Short-term on-the-job training
53-3052	Bus Drivers, Transit and Intercity	580	580	0	-0.52	70	High school diploma or equivalent	None		Moderate-term on-the-job training
53-3053	Shuttle Drivers and Chauffeurs	580	580	0	0.87	80	No formal educational credential	None		Short-term on-the-job training
53-3054	Taxi Drivers	900	890	-10	-1.44	90	No formal educational credential	None		Short-term on-the-job training
53-3058	Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity	70	70	0	0.00	0				
53-3099	Motor Vehicle Operators, All Other	790	800	10	1.27	130	No formal educational credential	None		Short-term on-the-job training
<b>53-4000</b>	<b>Rail Transportation Workers</b>	<b>850</b>	<b>850</b>	<b>0</b>	<b>0.00</b>	<b>80</b>				
53-4011	Locomotive Engineers	370	370	0	-0.27	30	High school diploma or equivalent	Less than 5 years		Moderate-term on-the-job training
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	150	150	0	0.00	10	High school diploma or equivalent	None		Moderate-term on-the-job training
<b>53-5000</b>	<b>Water Transportation Workers</b>	<b>60</b>	<b>60</b>	<b>0</b>	<b>-1.75</b>	<b>10</b>				
<b>53-6000</b>	<b>Other Transportation Workers</b>	<b>3,520</b>	<b>3,600</b>	<b>80</b>	<b>2.01</b>	<b>550</b>				
53-6021	Parking Attendants	800	800	0	0.12	120	No formal educational credential	None		Short-term on-the-job training
53-6031	Automotive and Watercraft Service Attendants	1,640	1,680	40	2.50	280	No formal educational credential	None		Short-term on-the-job training
53-6032	Aircraft Service Attendants	190	200	10	3.16	30	High school diploma or equivalent	None		Short-term on-the-job training
53-6041	Traffic Technicians	50	60	10	3.77	10	High school diploma or equivalent	None		Moderate-term on-the-job training
53-6051	Transportation Inspectors	680	700	20	2.50	80	High school diploma or equivalent	None		Moderate-term on-the-job training
53-6099	Transportation Workers, All Other	90	90	0	1.14	10	High school diploma or equivalent	None		Short-term on-the-job training
53-7000	Material Moving Workers	74,310	77,160	2,850	3.84	12,320				
53-7011	Conveyor Operators and Tenders	560	580	20	2.31	80	No formal educational credential	None		Short-term on-the-job training
53-7021	Crane and Tower Operators	680	700	20	2.93	80	High school diploma or equivalent	Less than 5 years		Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	200	200	0	2.04	0				
53-7051	Industrial Truck and Tractor Operators	8,150	8,420	270	3.37	1,080	No formal educational credential	None		Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	4,860	4,920	60	1.19	730	No formal educational credential	None		Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	34,240	35,720	1,480	4.33	5,640	No formal educational credential	None		Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	340	340	0	1.19	60	No formal educational credential	None		Short-term on-the-job training
53-7064	Packers and Packagers, Hand	4,010	4,070	60	1.57	650	No formal educational credential	None		Short-term on-the-job training
53-7065	Stockers and Order Fillers	16,770	17,590	820	4.85	3,330	High school diploma or equivalent	None		Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	260	260	0	1.18	30	High school diploma or equivalent	None		Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumps	700	720	20	2.85	100	High school diploma or equivalent	None		Moderate-term on-the-job training
53-7073	Wellhead Pumps	910	940	30	3.75	130	High school diploma or equivalent	Less than 5 years		Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	2,120	2,170	50	2.40	330	No formal educational credential	None		Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	260	270	10	1.14	40	No formal educational credential	None		Short-term on-the-job training
53-7199	Material Moving Workers, All Other	50	50	0	1.92	10	No formal educational credential	None		Short-term on-the-job training

Footnotes:

<sup>1</sup>The Bureau of Labor Statistics (BLS) has implemented a new methodology to measure occupational separations for 2019-2021 projections. For more information about the Separations methodology, visit: <https://www.bls.gov/emp/documentation/separations.htm>

<sup>2</sup>Represents the typical education level needed to enter the occupation.

<sup>3</sup>Indicates if work experience in a related occupation is commonly considered necessary by employers for entry, or is a commonly accepted substitute for formal types of training.

<sup>4</sup>Indicates the typical on-the-job training needed to attain competency in the occupation.

NOTE: For more information about the education, work experience, and on-the-job training categories assigned to occupations, see <https://www.bls.gov/emp/documentation/education-training-system.htm>

Source: Employment Projections Program, Oklahoma Employment Security Commission, Research & Analysis Division.